



ATTACHMENT B

Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application.

1. (previously presented) An adsorption gas dryer having a first drying tower and a second drying tower, each having a first port and a second port through which gas can pass into or out of the tower, a first manifold and a second manifold connected respectively to the first and the second ports of both towers, the manifolds each including integral gas passages, each port of the towers being in communication with a gas passage, and the manifolds each including at least one integral valve seat upon which a valve actuator is mounted to constitute a valve for controlling flow of gas through the gas passages wherein the second manifold has two exhaust valves for controlling purge gas;

wherein each manifold is formed as an identical casting; and

wherein the position in the casting occupied by the exhaust valves in the second manifold is left vacant in the first manifold.

2. (original) An adsorption gas dryer as claimed in claim 1 in which the exhaust valves are arranged adjacent each other in the second manifold.

3. (canceled)

4. (previously presented) An adsorption gas dryer as claimed in claim 1 in which the second manifold acts as a wet gas inlet and the first manifold acts as the dry gas outlet.

5. (canceled)

6. (canceled)

7. (previously presented) An adsorption gas dryer as claimed in claim 4 in which two cavities with no valves therein are present in the first manifold, these two cavities being joined by a gas passage through which purge gas can flow.

8. (original) An adsorption gas dryer as claimed in claim 7 in which the first manifold has an aperture which provides an exit from the purge gas passage to the exterior of the manifold, this aperture being blocked off to ensure that the purge gas does not exit the manifold via the aperture.

9. (original) An adsorption gas dryer as claimed in claim 8 in which the aperture is blocked off using a restriction element that restricts the flow of purge gas by a predetermined amount.

10. (currently amended) An adsorption gas dryer as claimed in claim 1, wherein and comprising said first and second drying towers ~~which~~ are similar, each having an upper said first port and a lower said second port, and an upper said first manifold and a lower said second manifold, the upper first manifold being connected to the upper first ports of both of the first and second towers and the lower second manifold being connected to the lower second ports of both of the first and second towers.

11. (original) An adsorption gas dryer as claimed in claim 1 in which O-rings are located in nozzles of the towers to provide seals with the manifolds.

12. (original) An adsorption gas dryer as claimed in claim 1 in which the exhaust valves are servo-controlled diaphragm valves.

13. (original) An adsorption gas dryer as claimed in claim 12 in which the second manifold includes a shuttle valve to direct wet gas into the on-stream tower, the movement of the shuttle valve being controlled by the exhaust valves.

14. (original) An adsorption gas dryer as claimed in claim 1 in which at least one of the manifolds includes a demand valve that comprises a spring-loaded piston, such that, only when the gas pressure is sufficient, the spring is compressed and the piston is moved in the direction of the gas flow to allow it to enter a gas passage revealed only when the piston is depressed.

15. (previously presented) A connection block for connection to the first or to the second manifold of an adsorption gas dryer as claimed in claim 1, the connection block comprising two sets of gas passages, each set forming a cruciform shape having four arms within the block, each set having up to three arms of the cruciform shape leading to an exit from the block, whilst a fourth arm of the cruciform shape of one set forms an inlet into the first or second manifold and a fourth arm of the other set forms an outlet from the first or second manifold.

16. (original) A connection block as claimed in claim 15 and including additional gas passages leading to the exterior of the block branching off from the cruciform passages.